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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/756,763	01/14/2004	Masahiro Sunohara	040001	1523
23850	7590 05/12/2006		EXAMINER	
ARMSTRONG, KRATZ, QUINTOS, HANSON & BROOKS, LLP			WILLIAMS, ALEXANDER O	
SUITE 1000	1725 K STREET, NW SUITE 1000		ART UNIT	PAPER NUMBER
WASHINGTON, DC 20006			2826	
			DATE MAILED: 05/12/2000	6

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)		
	10/756,763	SUNOHARA ET AL.		
Office Action Summary	Examiner	Art Unit		
	Alexander O. Williams	2826		
The MAILING DATE of this communication Period for Reply	n appears on the cover sheet wit	h the correspondence address		
A SHORTENED STATUTORY PERIOD FOR R WHICHEVER IS LONGER, FROM THE MAILIN - Extensions of time may be available under the provisions of 37 C after SIX (6) MONTHS from the mailing date of this communicatic - If NO period for reply is specified above, the maximum statutory p - Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	NG DATE OF THIS COMMUNIC FR 1.136(a). In no event, however, may a re on. period will apply and will expire SIX (6) MONT statute, cause the application to become ABA	ATION. ply be timely filed "HS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).		
Status				
1) Responsive to communication(s) filed on	24 February 2006.			
2a)⊠ This action is FINAL . 2b)☐ This action is non-final.				
3) Since this application is in condition for all	•	•		
closed in accordance with the practice un	der <i>Ex parte Quayle</i> , 1935 C.D.	11, 453 O.G. 213.		
Disposition of Claims				
4) Claim(s) 1-17 is/are pending in the application	ation.			
4a) Of the above claim(s) <u>1-12 and 14</u> is/a	are withdrawn from consideration	٦.		
5) Claim(s) is/are allowed.				
6) Claim(s) <u>13 and 15-17</u> is/are rejected.				
7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction a	and/or election requirement			
o) Claim(s) are subject to restriction a	and/or election requirement.			
Application Papers				
9) The specification is objected to by the Exa				
10) The drawing(s) filed on is/are: a)		•		
Applicant may not request that any objection to	- · ·			
Replacement drawing sheet(s) including the control of the control				
·	To Examinor. Note the attached	511100 7 (01011 OF 101111 TO 102.		
Priority under 35 U.S.C. § 119				
12)⊠ Acknowledgment is made of a claim for for a)⊠ All b)□ Some * c)□ None of:	reign priority under 35 U.S.C. §	119(a)-(d) or (f).		
1. ☐ Certified copies of the priority docur	ments have been received			
2. ☐ Certified copies of the priority docur		polication No		
3. Copies of the certified copies of the	•	·		
application from the International Bu		J		
* See the attached detailed Office action for a	a list of the certified copies not re	eceived.		
Attachment(s)				
1) IXI Notice of Deferences Cited (DTC 200)	4\ 1 1 1 1 2			
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 		ımmary (PTO-413) /Mail Date		

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Serial Number: 10/756763 Attorney's Docket #: 040001 Filing Date: 1/14/2004; foreign priority to 1/23/03 and 11/17/03

Applicant: Sunohara et al.

Examiner: Alexander Williams

Applicant's Amendment filed 2/24/06 to the election of species I, figures 2A-2H (claims 13 and 15 to 17), filed 10/25/05 to the election of Group I, claims 13-17 filed 7/29/05 has been acknowledged.

This application contains claims 1 to 12 and 14 drawn to an invention non-elected with traverse. A complete response to the final rejection must include cancellation of non-elected claims or other appropriate action (see 37 CFR > 1.144 & MPEP > 821.01).

Claims 15 to 17 are rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claims 15 to 17, in the phrase "The electronic parts structure according to any one of claims 13 and 14" lacks antecedent basis given the species in claim 13 is different than the species in claim 14.

Any of claims 15 to 17 not specifically addressed above are rejected as being dependent on one or more of the claims which have been specifically objected to above.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. § 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

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(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains.

Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 103(a).

Claims 13 and 15 to 17, insofar as claims 15-17 can be understood, are rejected under 35 U.S.C. § 102(b) as being anticipated by Takeuchi Yukiharu (Japan Patent # 2000-323645).

13. Takeuchi Yukiharu (figures 1 to 8) specifically figure 4 show an electronic parts packaging structure comprising: a wiring substrate 20 including a wiring pattern 36; a first insulation film 26b formed on the wiring substrate; an electronic parts (upper 12s within 26b) having a connection terminal (inherent) on an element formation surface, the electronic parts being buried in the first insulation film in a state where the connection terminal is directed upward and being mounted in a state where a backside of the electronic parts is not in contact with the wiring substrate; a second insulation film 26c for covering the electronic parts, and whose upper surface is flat over a whole on

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the wiring substrate; via holes **32** respectively formed in a predetermined portion of the first and second insulation films on the wiring pattern and the connection terminal; an upper wiring pattern **22d** formed as a single wiring on the second insulation film, the upper wiring pattern being connected to the wiring pattern and the connection terminal through the via holes; and an upper electronic part **(top 12s)** with bumps **38** which are flip-chip bonded to connection portions of the upper wiring pattern which directly contacts the upper surface of the second insulating film.

- 15. The electronic parts packaging structure according to any one of claims 13 and 14, Takeuchi Yukiharu show wherein the element formation surface of the electronic parts and an upper surface of the insulation film in which the electronic parts is buried are at an almost same height to be planarized.
- 16. The electronic parts packaging structure according to any one of claims 13 and 14, Takeuchi Yukiharu show wherein the electronic parts is a semiconductor chip having a thickness of approximately 150 micrometer or less.

Note that the specification contains no disclosure of either the critical nature of the claimed dimensions or any unexpected results arising therefrom. Where patentability is said to be based upon particular chosen dimensions or upon another variable recited in a claim, the Applicant must show that the chosen dimensions are critical. In re Woodruff, 919 F.2d 1575, 1578, 16 USPQ2d 1934, 1936 (Fed. Cir. 1990).

17. The electronic parts packaging structure according to any one of claims 13 and 14, Takeuchi Yukiharu show wherein the insulation film is made of resin.

Response

Applicant's arguments filed 2/24/06 have been fully considered, but are moot in view of the new grounds of rejections detailed above.

The insertion of Applicant's additional claimed language, for example, "in claim 13" cause for further search and consideration to make this action final.

Applicant's amendment necessitated the new grounds of rejection. Accordingly, **THIS ACTION IS MADE FINAL**. See M.P.E.P. \ni 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 C.F.R. \ni 1.136(a).

A SHORTENED STATUTORY PERIOD FOR RESPONSE TO THIS FINAL
ACTION IS SET TO EXPIRE THREE MONTHS FROM THE DATE OF THIS ACTION

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IN THE EVENT A FIRST RESPONSE IS FILED WITHIN TWO MONTHS OF THE MAILING DATE OF THIS FINAL ACTION AND THE ADVISORY ACTION IS NOT MAILED UNTIL AFTER THE END OF THE THREE-MONTH SHORTENED STATUTORY PERIOD, THEN THE SHORTENED STATUTORY PERIOD WILL EXPIRE ON THE DATE THE ADVISORY ACTION IS MAILED, AND ANY EXTENSION FEE PURSUANT TO 37 C.F.R. • 1.136(a) WILL BE CALCULATED FROM THE MAILING DATE OF THE ADVISORY ACTION. IN NO EVENT WILL THE STATUTORY PERIOD FOR RESPONSE EXPIRE LATER THAN SIX MONTHS FROM THE DATE OF THIS FINAL ACTION.

The listed references are cited as of interest to this application, but not applied at this time.

Field of Search	Date
U.S. Class and subclass: 257/774,773,758,211,203,207,208,730,700,701,698,e23.0 11,e23.178,e23.002,e23.181,e23.03,e25.031,e25.013 523/176	12/9/05 5/9/06
Other Documentation: foreign patents and literature in 257/774,773,758,211,203,207,208,730,700,701,698,e23.0 11,e23.178,e23.002,e23.181,e23.03,e25.031,e25.013 523/176	12/9/05 5/9/06
Electronic data base(s): U.S. Patents EAST	12/9/05 5/9/06

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alexander O. Williams whose telephone number is (571) 272 1924. The examiner can normally be reached on M-F 6:30AM-7:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn can be reached on (571) 272 1915. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Alexander O Williams
Primary Examiner
Art Unit 2826

AOW 5/11/06